

• Process inputs

(Volt , mA, Sensor supply, potentiometer)

• 2 , 3 or 4 relays outputs

(programmable output in PWM)

• Measure display (10 000 pts)

(Setting with front face or RS232)

• Universal power supply

• Low cycle time 20ms



The DNL35-MLi allows the conversion of analog signals in pulse width modulated free potential contact (duty cycle is proportional to input signal).

The transfer function (slope, offset, dead zone) are freely configurable to adjust to application.

DESCRIPTION:

Process inputs:

- Current (with or without sensor supply)
- Voltage, potentiometer.

Calculation function :

- special linearization on 26 points

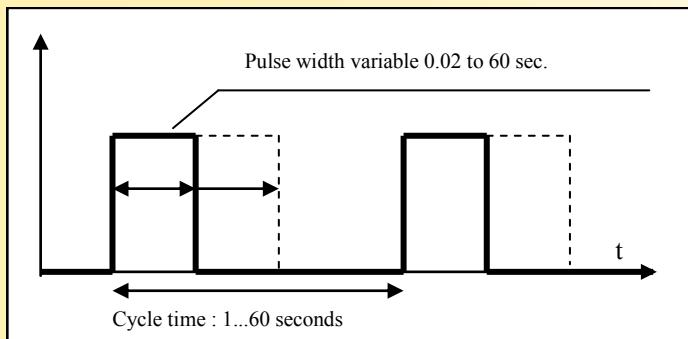
Front face :

- 1 Green LED for power
- Matrix alphanumeric 4 digits LED display
- 2 push buttons for device configuration
- 4 Red LED for relay status indication

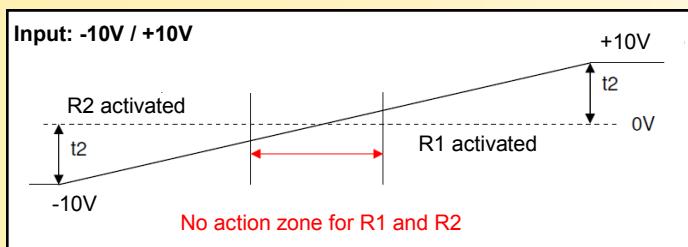
Relays:

- up to 4 relays outputs (Normally open contact).
- cycle time (period) and operating range configurable
- temporal resolution 20 ms mini (cycle time of converter)

Chronogram of output signal :



Example of transfer function :



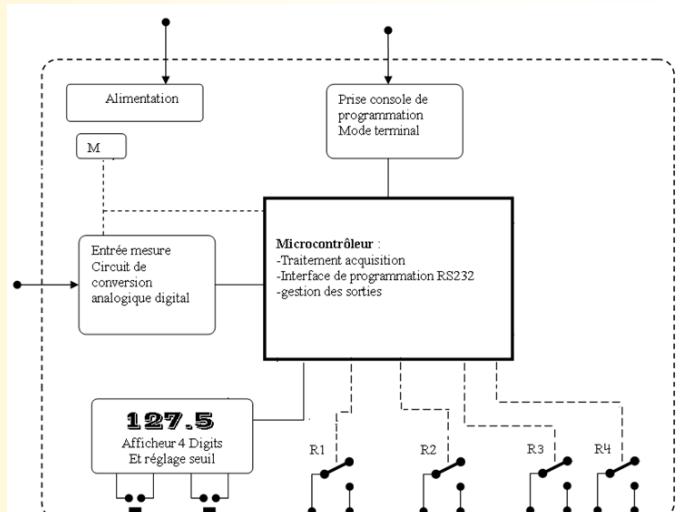
Feature:

- Din rail mounting, 23mm width
- Pluggable terminal blocks, section maxi 2.5mm²
- Universal switching power supply:
20....to.....265Vac/dc or 9Vdc.....to.....30Vdc
- Conformal coating.
- galvanic isolation input/output/power supply

CONFIGURATION:

This device may be configured via the front face button or with the RS232 serial link (jack 3.5), under any system which can emulate a terminal.
(No specific software to install, interface cord provided separately).
- configuration setting saved in FLASH memory, data retention > 20 years,
- Firmware evolution possible (uploaded via the RS232 link)

Synoptic:



Version and order code:

[Request a quote](#)

DNL35-MLi : Standard version with 2 relays outputs

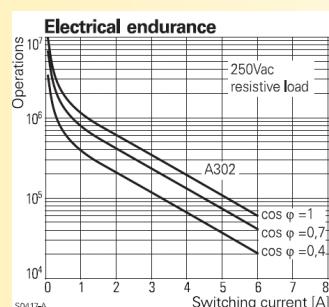
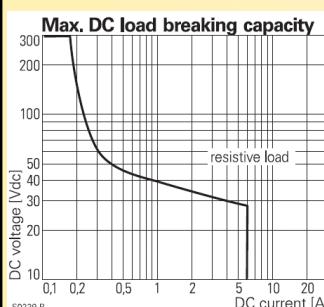
option	/R3 :	3 relays
	/R4 :	4 relays

Input
(resolution :14 bits ; reference 5 ppm)

Type	Range	Accuracy
Voltage (Low level)	- 250 to 2000mVdc	+/- 40 uV to +/-1 mV
Input impedance (on two measure ranges : 250mV and 2000 mV)	1 Mohms	
Voltage (High level)	- 25 to 200Vdc	+/- 0.02 V
Input impedance (on two measure ranges : 25 V and 200 V)	500 kOhms	to +/-0.8 V
Current	- 4mA à 40 mA	+/- 0.01 mA
Input impedance	50 Ohms	

RELAYS

electro mechanic relay (static relay in option)
 Switching power 5A - 250Vac-dc
 close delay 5ms maxi
 open delay 5ms maxi

**POWER SUPPLY**

Universal: (2 versions: standard and low voltage, not polarized)
 standard : 20....to.....265Vac/dc
 low voltage : 9 Vdc....to.....30Vdc.
 consumption < 3 VA

AUXILIARY

Sensor supply 22 V regulated +/- 5% (50mA)
 Potentiometer reference 5 V regulated +/- 0.15% (20mA)

ENVIRONMENT

Operating temperature	-10 to +60 °C
Storage temperature	-20 to +85 °C
Thermal drift	< 20 PPM / °C (of full scale)
Humidity	85 % (non condensed)
Weight	~ 160 g
Protection rating	IP20
Dielectric strength	1500 Vac continuous 2500 Vac 1 minute.

Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE**Immunity standard for industrial environments EN 61000-6-2**

EN 61000-4-2 ESD
EN 61000-4-8 AC MF
EN 61000-4-3 RF
EN 61000-4-9 pulse MF
EN 61000-4-4 EFT
EN 61000-4-11 AC dips
EN 61000-4-5 CWG
EN 61000-4-12 ring wave
EN 61000-4-6 RF
EN 61000-4-29 DC dips

Emission standard for industrial environments EN 61000-6-4

EN 55011
group 1 class A

**WIRING AND OUTLINE DIMENSIONS:**